

# A REFLECTIVE SPATIAL LIGHT MODULATOR ARRAY

## ABSTRACT OF THE INVENTION

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5 A reflective spatial light modulator array is described  
incorporating liquid crystal devices, mirrors, a semiconductor  
substrate, electrical circuits, and a reflector/absorber layer for  
blocking light. The invention overcomes the problem of shielding  
light from semiconductor devices, high optical throughput and  
contrast, pixel storage capacitance to hold the voltage across the  
liquid crystal device and precise control of the liquid crystal  
10 device thickness without spacers obscuring the mirrors.